

APPLICANT(S): BIEBER, Avigdor et al.
SERIAL NO.: Not yet known
FILED: Herewith
Page 3

AMENDMENTS TO THE CLAIMS

Please add or amend the claims to read as follows, and cancel without prejudice or disclaimer to resubmission in a divisional or continuation application claims 1-21 indicated as cancelled. The listing of the claims will replace all prior versions, and listing, of claims in the application.

1-21 (Cancelled).

22. (New) A method for fabricating an imaged lithographic printing member on demand, the method comprising:

transferring an image onto a lithographic printing member during fabrication of the lithographic printing member by transferring an imaging-carrying material from an imaged image-transfer film into a fluid formulation, the fluid formulation captured in between a substrate of the lithographic printing member and the imaged image-transfer film and curing the fluid formulation to form a solid imaging layer comprising a mirror image of said image.

23. (New) The method of claim 22, wherein the curing comprises curing with UV radiation.

24. (New) The method of claim 22, wherein the curing comprises curing with thermal radiation.

25. (New) The method of claim 22, wherein the curing comprises solidification by cooling.

APPLICANT(S): BIEBER, Avigdor et al.
SERIAL NO.: Not yet known
FILED: Herewith
Page 4

26. (New) The method of claim 22, wherein transferring said image comprises laminating the imaged image-transfer film with the substrate such that the fluid formulation captured in between and the imaging-carrying material is dipped into the fluid formulation using a wet lamination process.
27. (New) The method of claim 22, wherein transferring said image comprises laminating the imaged image-transfer film with the substrate such that the fluid formulation is captured in between and the imaging-carrying material is dipped into the fluid formulation using an ironing lamination process.
28. (New) The method of claim 22, wherein transferring said image comprises laminating the imaged image-transfer film with the substrate such that the fluid formulation is captured in between and the imaging-carrying material is dipped into the fluid formulation using a hot lamination process.
29. (New) The method of claim 22, wherein the imaging-carrying material is a toner.
30. (New) The method of claim 22 further comprising:

releasing the image-transfer film from said imaging layer to expose on a surface of said imaging layer the mirror image of said image, wherein areas of said surface comprising said mirror image of said image and the remaining area of said surface have different affinities for ink and/or ink-repellent fluid.
31. (New) A method of fabricating an imaged lithographic printing member, the method comprising:

APPLICANT(S): BIEBER, Avigdor et al.

SERIAL NO.: Not yet known

FILED: Herewith

Page 5

imaging a selected image onto an image-transfer film by applying an imaging-carrying material on selected areas of said image-transfer film; applying a fluid formulation onto a substrate and / or the imaged image-transfer film; laminating the imaged image-transfer film with the substrate such that the fluid formulation is captured in between and the imaging-carrying material is dipped into the fluid formulation; and curing the fluid formulation to form a solid imaging layer, said solid imaging layer comprising said imaging-carrying material such that a surface of said imaging layer comprises a mirror image of said selected image.

32. (New) The method of claim 31 further comprising:

releasing the image-transfer film from said imaging layer such that said mirror image of said selected image is exposed.

33. (New) The method of claim 31, wherein the mirror image of said selected image and the remaining area of said surface have different affinities for ink and/or ink-repellent fluid.

34. (New) The method of claim 31, wherein the curing comprises curing with UV radiation.

35. (New) The method of claim 31, wherein the curing comprises radiating UV energy onto the image-transfer film.

36. (New) The method of claim 31, wherein the curing comprises radiating UV energy onto the substrate.

APPLICANT(S): BIEBER, Avigdor et al.

SERIAL NO.: Not yet known

FILED: Herewith

Page 6

37. (New) The method of claim 31, wherein the image-transfer film is used as a protective film and is released prior to printing.

38. (New) The method of claim 31, wherein the imaging comprises printing said selected image onto the image transfer film using a laser printer.

39. (New) An imaged lithographic printing member comprising:

a solid substrate; and

an imaging layer over the substrate, wherein an imaged area of a surface of said imaging layer comprises a mirror image of a selected image,

said imaged lithographic printing member is produced by:

imaging the selected image onto an image-transfer film by applying an image-carrying material onto said image-transfer film;

applying a fluid formulation onto said substrate and / or the imaged image-transfer film;

laminating the imaged image-transfer film with the substrate such that the fluid formulation is captured in between and the imaging-carrying material is dipped into the fluid formulation; and

curing the fluid layer to form said imaging layer such that the imaged areas comprise the mirror image of the selected image.

40. (New) The imaged lithographic printing member of claim 39, wherein the imaged area and a non-imaged area of said surface have different affinities for ink and/or ink-repellent fluid.

APPLICANT(S): BIEBER, Avigdor et al.

SERIAL NO.: Not yet known

FILED: Herewith

Page 7

41. (New) The imaged lithographic printing member of claim 40, wherein the imaged area is oleophilic and the non-imaged area is oleophobic.

42. (New) The imaged lithographic printing member of claim 40, wherein the imaged area is oleophilic and hydrophobic and the non-imaged area is hydrophilic.

43. (New) The imaged lithographic printing member of claim 39, wherein the substrate is transparent to ultraviolet radiation.

44. (New) The imaged lithographic printing member of claim 39, wherein the image-transfer film is transparent to ultraviolet radiation.

45. (New) The imaged lithographic printing member of claim 40, wherein the imaging-carrying material is an electro photography toner.

46. (New) An on-demand plate-making apparatus comprising:

a substrate handling unit to hold and conduct a substrate,

a lamination handling unit to hold and conduct an imaged image-transfer film having an imaging-carrying material thereon; and

an applicator to apply a fluid formulation onto the substrate and / or the imaged image-transfer film,

wherein during the lamination of the imaged image-transfer film with the substrate the fluid formulation is captured in between the imaged image-transfer film and the substrate and the imaging-carrying material is dipped into the fluid formulation.

47. (New) The apparatus of claim 46 further comprising:

a curing unit to cure the fluid formulation to form a solid imaging layer.

48. (New) The apparatus of claim 46 further comprising:

APPLICANT(S): BIEBER, Avigdor et al.

SERIAL NO.: Not yet known

FILED: Herewith

Page 8

a printing engine to place an imaging-carrying material onto a non-imaged
image-transfer film.

49. (New) The apparatus of claim 46, wherein the apparatus is installed in a printing
machine.

50. (New) The apparatus of claim 46 further comprising:

a formulation mixing unit to prepare the fluid formulation.